Supporting Information

Terahertz Photonic Crystals Based on Barium Titanate / Polymer Nanocomposites

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Figure S1. Scanning electron microscopy images of fractured surfaces of PMMA comprising BaTiO₃ nanoparticles: (a) 6% v/v, particle size 100 nm; (b) 3% v/v, particle size 200 nm. The images show occasional zones of aggregated BaTiO₃.
Figure S2. Real ($n'$) and imaginary ($n''$) parts of the refractive index of PMMA/ BaTiO$_3$ nanocomposite films containing a) 0%, b) 6%, and c) 19% v/v BaTiO$_3$ (particle size: 100 nm). Solid lines represent effective medium theory calculation.
Figure S3. Real ($n'$) part of the refractive index of poly(styrene)/BaTiO$_3$ nanocomposite films at 0.8 THz as a function of BaTiO$_3$ content. The solid line represents an effective medium theory calculation.